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<110> Shaughnessy, John D.

<120> Evi27 Gene Sequence and Protein Encoded Thereby

<130> D6138

<140> US 09/778,971
<141> 2001-02-02

<150> US 60/180,374
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Asp Tyr Ser Ile Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp
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Ala Ser Ile Arg Leu Leu Lys Ala Thr Lys Ile Cys Val Thr Gly
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Lys Ser Asn Phe Gln Ser Tyr Ser Cys Val Arg Cys Asn Tyr Thr
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Glu Ala Phe Gln Thr Gln Thr Arg Pro Ser Gly Gly Lys Trp Thr
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Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu Thr Val Glu
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Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met Ala Leu
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His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
230 235 240
Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro
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Glu Ala Phe Gln Thr Gln Thr Arg Pro Ser Gly Gly Lys Trp Thr
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Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu Pro
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His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
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Gly Trp Leu Pro Leu Phe Leu Val Leu Leu Val Ala Val Trp Val
    290                 295                 300
Leu Ala Ala Gly Ile Tyr Leu Thr Trp Arg Gln Gly Arg Ser Thr
305                 310                 315
Lys Thr Ser Phe Pro Ile Ser Thr Met Leu Leu Pro Leu Ile Lys
                320                 325                 330
Val Leu Val Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Val
            335                 340                 345
Cys Arg Phe Thr Asp Phe Leu Gln Asn Tyr Cys Arg Ser Glu Val
        350                 355                 360
Ile Leu Glu Lys Trp Gln Lys Lys Lys Ile Ala Glu Met Gly Pro
    365                 370                 375
Val Gln Trp Leu Thr Thr Gln Lys Gln Ala Ala Asp Lys Val Val
380                 385                 390
Phe Leu Leu Pro Ser Asp Val Pro Thr Leu Cys Asp Ser Ala Cys
                395                 400                 405
Gly His Asn Glu Gly Ser Ala Arg Glu Asn Ser Gln Asp Leu Phe
            410                 415                 420
Pro Leu Ala Phe Asn Leu Phe Cys Ser Asp Phe Ser Ser Gln Thr
        425                 430                 435
His Leu His Lys Tyr Leu Val Val Tyr Leu Gly Gly Ala Asp Leu
    440                 445                 450
Lys Gly Asp Tyr Asn Ala Leu Ser Val Cys Pro Gln Tyr His Leu
455                 460                 465
Met Lys Asp Ala Thr Ala Phe His Thr Glu Leu Leu Lys Ala Thr
                470                 475                 480
Gln Ser Met Ser Val Lys Lys Arg Ser Gln Ala Cys His Asp Ser
            485                 490                 495
Cys Ser Pro Leu
        499
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<211> 289
<212> PRT
<213> Unknown

<220>

<221> peptide
<223> Mouse Evi27 protein

<400> 8

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Leu Pro Arg Glu Pro Thr Ile Gln Cys Gly Ser Glu Thr Gly Pro
            20                  25                  30
Ser Pro Glu Trp Met Val Gln His Thr Leu Thr Pro Gly Asp Leu
        35                  40                  45
Arg Asp Leu Gln Val Glu Leu Val Lys Thr Ser Val Ala Ala Glu
    50                  55                  60
Glu Phe Ser Ile Leu Met Asn Ile Ser Trp Ile Leu Arg Ala Asp
65                  70                  75
Ala Ser Ile Arg Leu Leu Lys Ala Thr Lys Ile Cys Val Ser Gly
                80                  85                  90
Lys Asn Asn Met Asn Ser Tyr Ser Cys Val Arg Cys Asn Tyr Thr
            95                  100                 105
Glu Ala Phe Gln Ser Gln Thr Arg Pro Ser Gly Gly Lys Trp Thr
        110                 115                 120
Phe Ser Tyr Val Gly Phe Pro Val Glu Leu Ser Thr Leu Tyr Leu
    125                 130                 135
Ile Ser Ala His Asn Ile Pro Asn Ala Asn Met Asn Glu Asp Ser
140                 145                 150
Pro Ser Leu Ser Val Asn Phe Thr Ser Pro Gly Cys Leu Asn His
155                 160                 165
Val Met Lys Tyr Lys Lys Gln Cys Thr Glu Ala Gly Ser Leu Trp
170                 175                 180
Asp Pro Asp Ile Thr Ala Cys Lys Lys Asn Glu Lys Met Val Glu
185                 190                 195
Val Asn Phe Thr Thr Asn Pro Leu Gly Asn Arg Tyr Thr Ile Leu
200                 205                 210
Ile Gln Arg Asp Thr Thr Leu Gly Phe Ser Arg Val Leu Glu Asn
215                 220                 225
Lys Leu Met Arg Thr Ser Val Ala Ile Pro Val Thr Glu Glu Ser
230                 235                 240
Glu Gly Ala Val Val Gln Leu Thr Pro Tyr Leu His Thr Cys Gly
245                 250                 255
Asn Asp Cys Ile Arg Arg Glu Gly Thr Val Val Leu Cys Ser Glu
260                 265                 270
Thr Ser Ala Pro Ile Pro Pro Asp Asp Asn Arg Arg Met Leu Gly
275                 280                 285
Gly Trp Leu Pro
289
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<211> 866
<212> PRT
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<220>

<221> peptide
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<400> 9

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 1               5                  10                  15
Leu Gly Leu Leu Leu Leu Leu Leu Gly Val Leu Ala Pro Gly Gly
            20                  25                  30
Ala Ser Leu Arg Leu Leu Asp His Arg Ala Leu Val Cys Ser Gln
        35                  40                  45
Pro Gly Leu Asn Cys Thr Val Lys Asn Ser Thr Cys Leu Asp Asp
    50                  55                  60
Ser Trp Ile His Pro Arg Asn Leu Thr Pro Ser Ser Pro Lys Asp
65                  70                  75
Leu Gln Ile Gln Leu His Phe Ala His Thr Gln Gln Gly Asp Leu
                80                  85                  90
Phe Pro Val Ala His Ile Glu Trp Thr Leu Gln Thr Asp Ala Ser
            95                  100                 105
Ile Leu Tyr Leu Glu Gly Ala Glu Leu Ser Val Leu Gln Leu Asn
        110                 115                 120
Thr Asn Glu Arg Leu Cys Val Arg Phe Glu Phe Leu Ser Lys Leu
    125                 130                 135
Arg His His His Arg Arg Trp Arg Phe Thr Phe Ser His Phe Val
140                 145                 150
Val Asp Pro Asp Gln Glu Tyr Glu Val Thr Val His His Leu Pro
155                 160                 165
Lys Pro Ile Pro Asp Gly Asp Pro Asn His Gln Ser Lys Asn Phe
            170                 175                 180
Leu Val Pro Asp Cys Glu His Ala Arg Met Lys Val Thr Thr Pro
        185                 190                 195
Cys Met Ser Ser Gly Ser Leu Trp Asp Pro Asn Ile Thr Val Glu
    200                 205                 210
Thr Leu Glu Ala His Gln Leu Arg Val Ser Phe Thr Leu Trp Asn
215                 220                 225
Glu Ser Thr His Tyr Gln Ile Leu Leu Thr Ser Phe Pro His Met
            230                 235                 240
Glu Asn His Ser Cys Phe Glu His Met His His Ile Pro Ala Pro
        245                 250                 255
Arg Pro Glu Glu Phe His Gln Arg Ser Asn Val Thr Leu Thr Leu
    260                 265                 270
Arg Asn Leu Lys Gly Cys Cys Arg His Gln Val Gln Ile Gln Pro
275                 280                 285
Phe Phe Ser Ser Cys Leu Asn Asp Cys Leu Arg His Ser Ala Thr
            290                 295                 300
Val Ser Cys Pro Glu Met Pro Asp Thr Pro Glu Pro Ile Pro Asp
305                 310                 315
Tyr Met Pro Leu Trp Val Tyr Trp Phe Ile Thr Gly Ile Ser Ile
            320                 325                 330
Leu Leu Val Gly Ser Val Ile Leu Leu Ile Val Cys Met Thr Trp
        335                 340                 345
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Arg Leu Ala Gly Pro Gly Ser Glu Lys Tyr Ser Asp Asp Thr Lys
                350                 355                 360
Tyr Thr Asp Gly Leu Pro Ala Ala Asp Leu Ile Pro Pro Pro Leu
                365                 370                 375
Lys Pro Arg Lys Val Trp Ile Ile Tyr Ser Ala Asp His Pro Leu
                380                 385                 390
Tyr Val Asp Val Val Leu Lys Phe Ala Gln Phe Leu Leu Thr Ala
                395                 400                 405
Cys Gly Thr Glu Val Ala Leu Asp Leu Leu Glu Glu Gln Ala Ile
                410                 415                 420
Ser Glu Ala Gly Val Met Thr Trp Val Gly Arg Gln Lys Gln Glu
                425                 430                 435
Met Val Glu Ser Asn Ser Lys Ile Ile Val Leu Cys Ser Arg Gly
                440                 445                 450
Thr Arg Ala Lys Trp Gln Ala Leu Leu Gly Arg Gly Ala Pro Val
                455                 460                 465
Arg Leu Arg Cys Asp His Gly Lys Pro Val Gly Asp Leu Phe Thr
                470                 475                 480
Ala Ala Met Asn Met Ile Leu Pro Asp Phe Lys Arg Pro Ala Cys
                485                 490                 495
Phe Gly Thr Tyr Val Val Cys Tyr Phe Ser Glu Val Ser Cys Asp
                500                 505                 510
Gly Asp Val Pro Asp Leu Phe Gly Ala Ala Pro Arg Tyr Pro Leu
                515                 520                 525
Met Asp Arg Phe Glu Glu Val Tyr Phe Arg Ile Gln Asp Leu Glu
                530                 535                 540
Met Phe Gln Pro Gly Arg Met His Arg Val Gly Glu Leu Ser Gly
                545                 550                 555
Asp Asn Tyr Leu Arg Ser Pro Gly Gly Arg Gln Leu Arg Ala Ala
                560                 565                 570
Leu Asp Arg Phe Arg Asp Trp Gln Val Arg Cys Pro Asp Trp Phe
                575                 580                 585
Glu Cys Glu Asn Leu Tyr Ser Ala Asp Asp Gln Asp Ala Pro Ser
                590                 595                 600
Leu Asp Glu Glu Val Phe Glu Glu Pro Leu Leu Pro Pro Gly Thr
                605                 610                 615
Gly Ile Val Lys Arg Ala Pro Leu Val Arg Glu Pro Gly Ser Gln
                620                 625                 630
Ala Cys Leu Ala Ile Asp Pro Leu Val Gly Glu Glu Gly Gly Ala
                635                 640                 645
Ala Val Ala Lys Leu Glu Pro His Leu Gln Pro Arg Gly Gln Pro
                650                 655                 660
Ala Pro Gln Pro Leu His Thr Leu Val Leu Ala Ala Glu Glu Gly
                665                 670                 675
Ala Leu Val Ala Ala Val Glu Pro Gly Pro Leu Ala Asp Gly Ala
                680                 685                 690
Ala Val Arg Leu Ala Leu Ala Gly Glu Gly Glu Ala Cys Pro Leu
                695                 700                 705
Leu Gly Ser Pro Gly Ala Gly Arg Asn Ser Val Leu Phe Leu Pro
                710                 715                 720
Val Asp Pro Glu Asp Ser Pro Leu Gly Ser Ser Thr Pro Met Ala
                725                 730                 735
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Ser Pro Asp Leu Leu Pro Glu Asp Val Arg Glu His Leu Glu Gly
                740                 745                 750
Leu Met Leu Ser Leu Phe Glu Gln Ser Leu Ser Cys Gln Ala Gln
                755                 760                 765
Gly Gly Cys Ser Arg Pro Ala Met Val Leu Thr Asp Pro His Thr
                770                 775                 780
Pro Tyr Glu Glu Glu Gln Arg Gln Ser Val Gln Ser Asp Gln Gly
                785                 790                 795
Tyr Ile Ser Arg Ser Ser Pro Gln Pro Pro Glu Gly Leu Thr Glu
                800                 805                 810
Met Glu Glu Glu Glu Glu Glu Glu Gln Asp Pro Gly Lys Pro Ala
                815                 820                 825
Leu Pro Leu Ser Pro Glu Asp Leu Glu Ser Leu Pro Ser Leu Gln
                830                 835                 840
Arg Gln Leu Leu Phe Arg Gln Leu Gln Lys Asn Ser Gly Trp Asp
                845                 850                 855
Thr Met Gly Ser Glu Ser Glu Gly Pro Ser Ala
                860                 865
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SEQ 13